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(54) METHOD FOR WORKING INTERNALLY NITRIDED MOLYBDENUM-ZIRCONIUM ALLOY

(57)Abstract:

PURPOSE: To obtain an Mo alloy with high strength at high temp. and superior workability by forming an Mo-Zr alloy contg. a specified amount of Zr and by internally nitriding the Mo-Zr alloy.

CONSTITUTION: An Mo-Zr alloy contg. 0.01W1.0wt% Zr is worked at about 700W 1,000° C, and the Mo-Zr alloy is internally nitrided to obtain an Mo-Zr alloy with high strength such as high tensile strength or hardness at about 1,000W1,800° C high temp. When the internal nitriding temp. is \leq about 1,350° C, an Mo-Zr alloy with relatively high hardness is obtd., and when the internal nitriding temp. is \geq about 1,350° C, an Mo-Zr alloy with high toughness and tensile strength is obtd.

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